

-2-

Please amend Claims 82, 130 and 136..

82. (Twice Amended) A method for identifying an agent which is an inhibitor of FATP1, comprising the steps of:
- (a) introducing into cells one or more vectors comprising a gene encoding a cell surface protein and a nucleic acid encoding FATP1 comprising the amino acid sequence of SEQ ID NO:25;
 - (b) contacting the host cells with an antibody to said [anti-]cell surface protein [antibody] and labeled fatty acid substrate of FATP1;
 - (c) contacting a first aliquot of the host cells with an agent being tested as an inhibitor of FATP1, while leaving a second aliquot of the host cells uncontacted with the agent;
 - (d) identifying, in said [the] first and second aliquots, [the] host cells expressing said [the] cell surface protein by detecting [the] said antibody to said [anti-]cell surface protein [antibody] bound to the host cells; and
 - (e) measuring, in the first and second aliquots, uptake of the fatty acid substrate of the host cells identified as expressing the cell surface protein;
- wherein less uptake of the fatty acid substrate in the first aliquot compared to the second aliquot is indicative that the agent is an inhibitor of FATP1.

130. 17 (Amended) A method for identifying an agent which is an inhibitor of fatty acid uptake by a protein, said protein having FATP1 activity and encoded by a polynucleotide which hybridizes to a complement of the polynucleotide of SEQ ID NO: 24 under stringent conditions comprising incubation in 6X SSC at 65°C, followed by two or more washes in 0.2X SSC/0.5% SDS at 65°C, comprising the steps of:

- (a) introducing into cells one or more vectors comprising a gene encoding a cell surface protein not endogenously expressed in said cells and a nucleic acid encoding FATP1 comprising the amino acid sequence of SEQ ID NO:25 to produce transformed host cells;
- (b) contacting said [the] host cells with an antibody to the [anti-]cell surface protein [antibody] and labeled fatty acid substrate of FATP1;

-3-

- D²
- (c) contacting a first aliquot of said [the] host cells with an agent being tested as an inhibitor of FATP1, while leaving a second aliquot of said [the] host cells uncontacted with the agent;
 - (d) identifying, in the first and second aliquots, said [the] host cells expressing the cell surface protein by detecting the antibody to the [anti-]cell surface protein [antibody] bound to said [the] host cells; and
 - (e) measuring, in the first and second aliquots, uptake of the fatty acid substrate of said [the] host cells identified as expressing the cell surface protein;

wherein less uptake of the fatty acid substrate in the first aliquot compared to the second aliquot is indicative that the agent is an inhibitor of FATP1.

~~136.~~ 21 (Amended) A method for identifying an agent which is an inhibitor of fatty acid uptake by a protein, said protein having FATP1 activity and encoded by a polynucleotide which hybridizes to a complement of the polynucleotide of SEQ ID NO: 46 under stringent conditions comprising incubation in 6X SSC at 65°C, followed by two or more washes in 0.2X SSC/0.5% SDS at 65°C, comprising the steps of:

- D³
- (a) introducing into cells one or more vectors comprising a gene encoding a cell surface protein not endogenously expressed in said cells and a nucleic acid encoding FATP1 comprising the amino acid sequence of SEQ ID NO:25 to produce transformed host cells;
 - (b) contacting said [the] host cells with an antibody to the [anti-]cell surface protein [antibody] and labeled fatty acid substrate of FATP1;
 - (c) contacting a first aliquot of said [the] host cells with an agent being tested as an inhibitor of FATP1, while leaving a second aliquot of said [the] host cells uncontacted with the agent;
 - (d) identifying, in the first and second aliquots, said [the] host cells expressing the cell surface protein by detecting the antibody to the [anti-]cell surface protein [antibody] bound to said [the] host cells; and
 - (e) measuring, in the first and second aliquots, uptake of the fatty acid substrate of said [the] host cells identified as expressing the cell surface protein;